

01 Getting Started

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The HMI configuration software help can help you master the basic operation and usage of the configuration software more quickly, and assist you in completing your work successfully.

The following steps will show how to install PIStudio.

Requirement

PIStudio installation package downloaded.

- Windows 7 (32bit / 64bit)
- Windows 8 (32bit / 64bit)
- Windows 8.1 (32bit / 64bit)
- Windows 10 (32bit / 64bit)

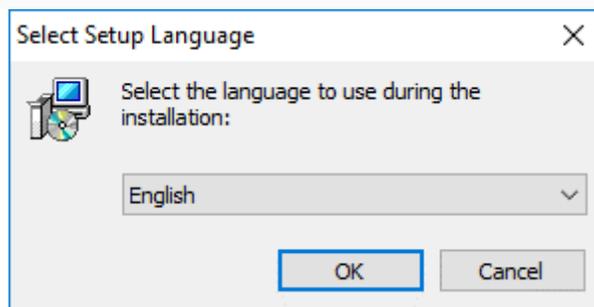
Download

[Download link](#)

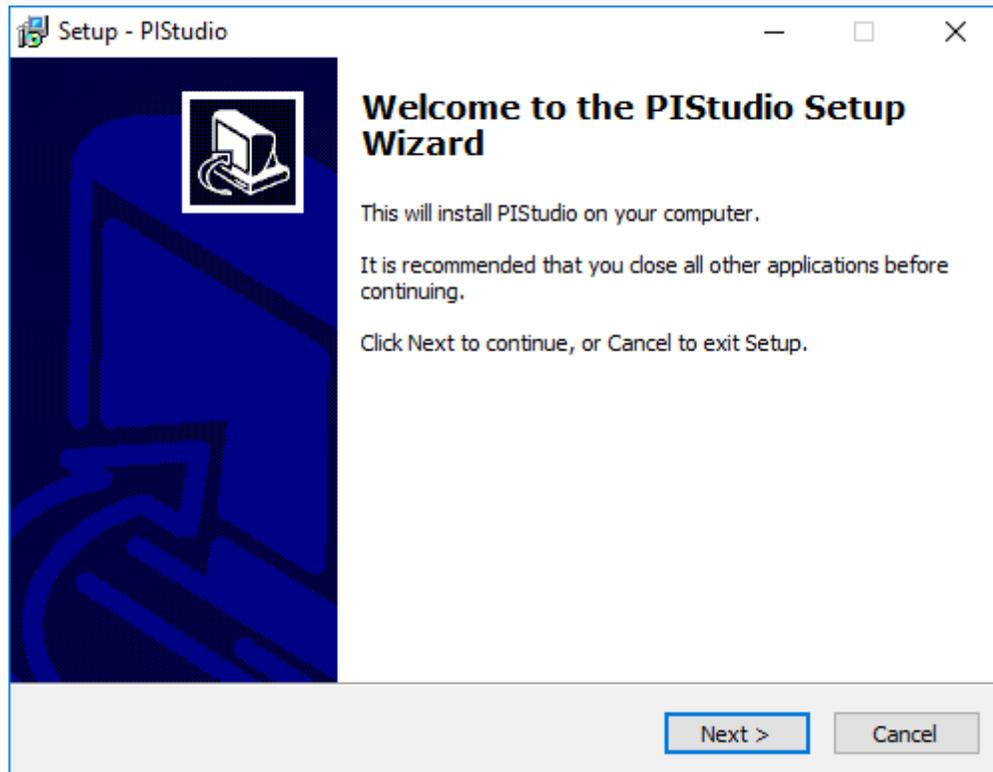
Installation

Steps:

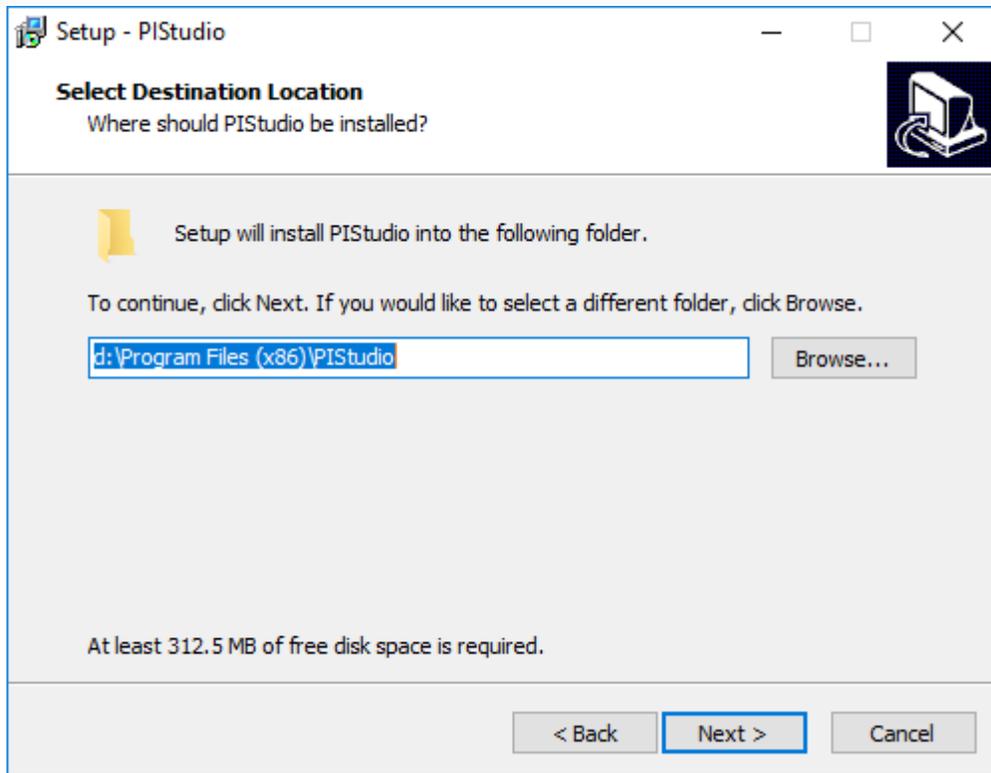
1. Decompress downloaded file get PIStudio installation package.
2. Select PIStudio installation package.
3. Right click it.
4. Select "Run as administrator".
5. Select language for PIStudio interface, it supports Chinese (Simplified), Chinese (Traditional), English, Italian, Russian.



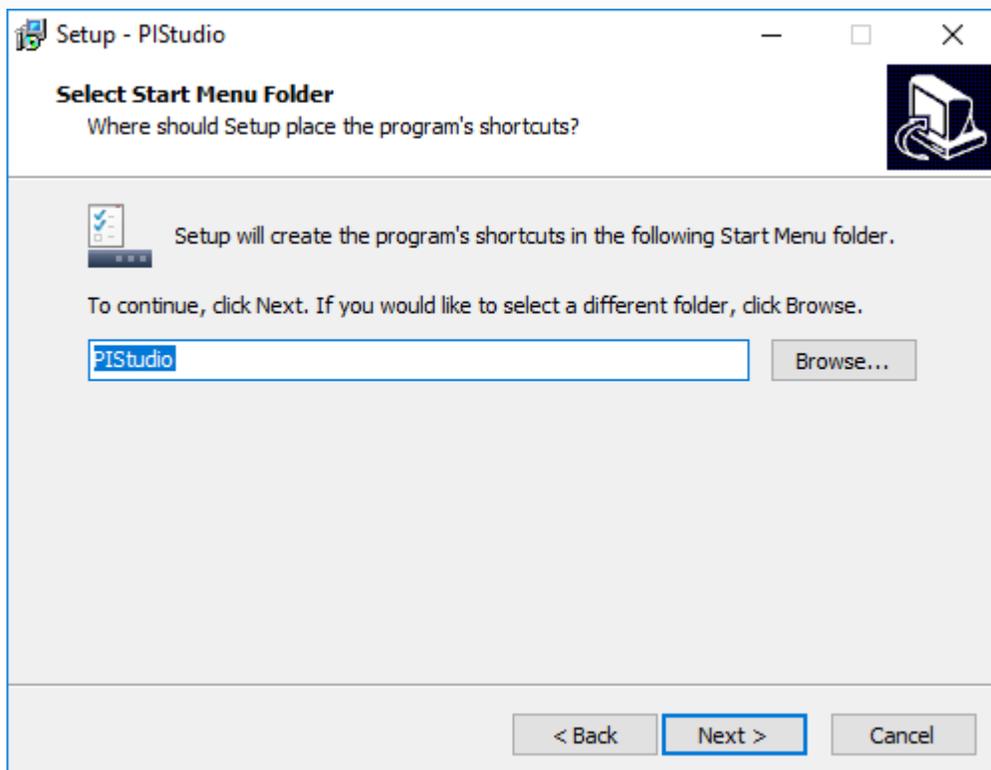
6. Click "Next".



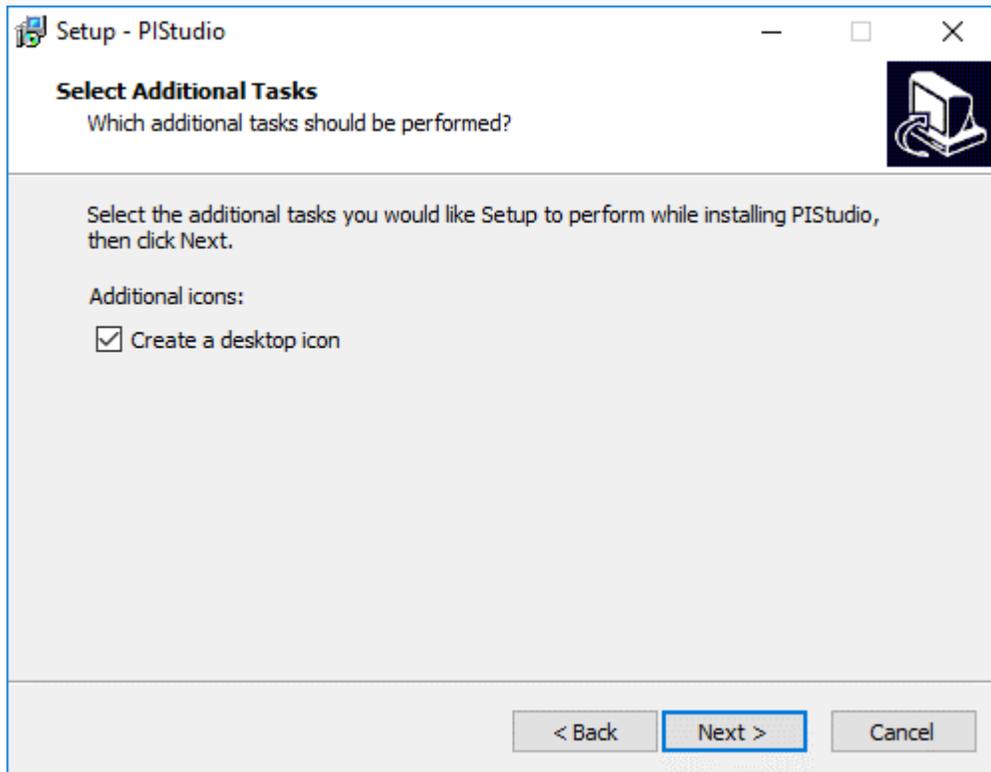
7. If there is a previous version of PISudio on the PC, please remove it before installation.
8. Select a folder for PISudio installation, or use the default folder, then click "Next".



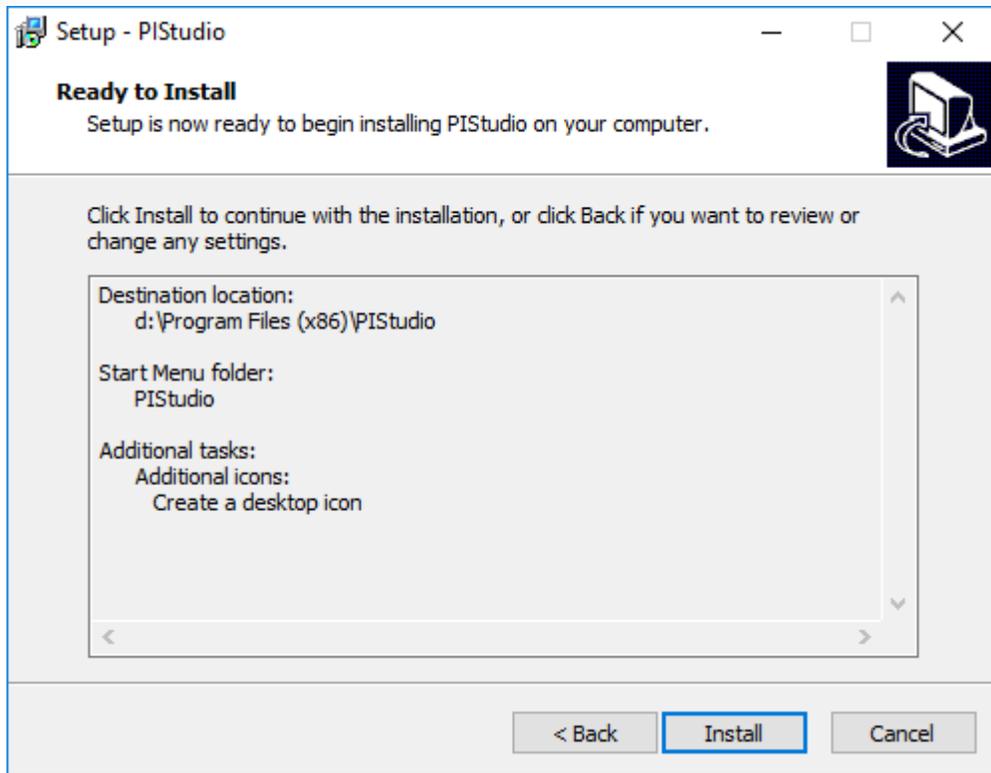
9. Click "Browse" to specify a folder, or use the folder suggested by the program, click "Next" to continue the installation process.



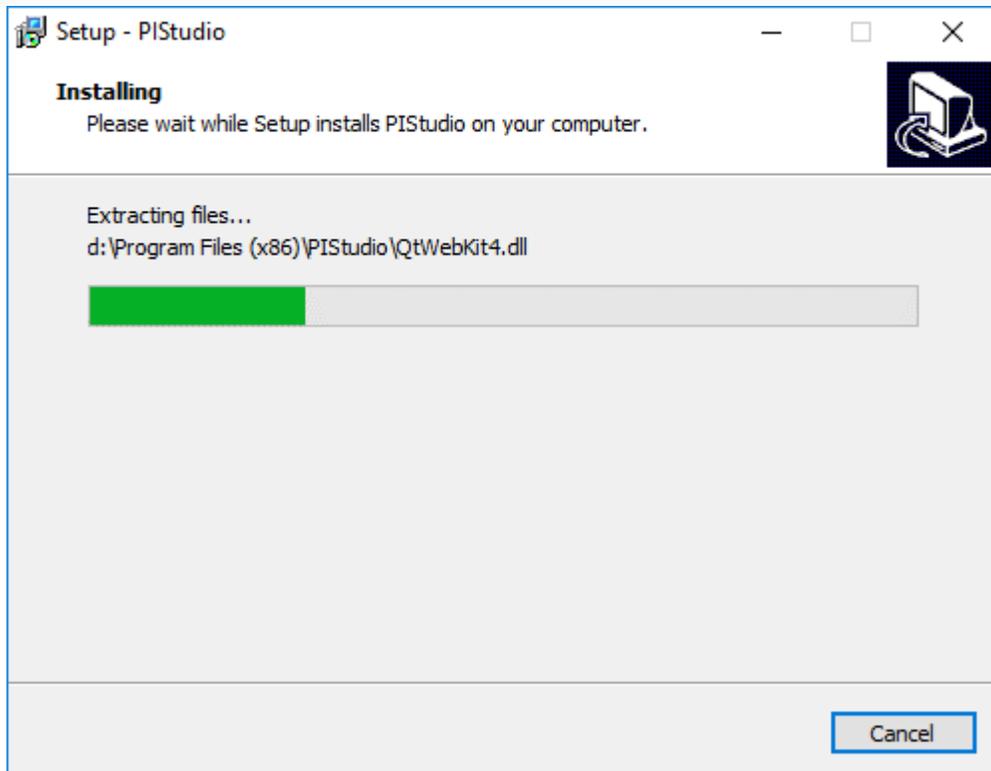
10. Select additional tasks, for example: "Create a desktop icon". Click "Next".



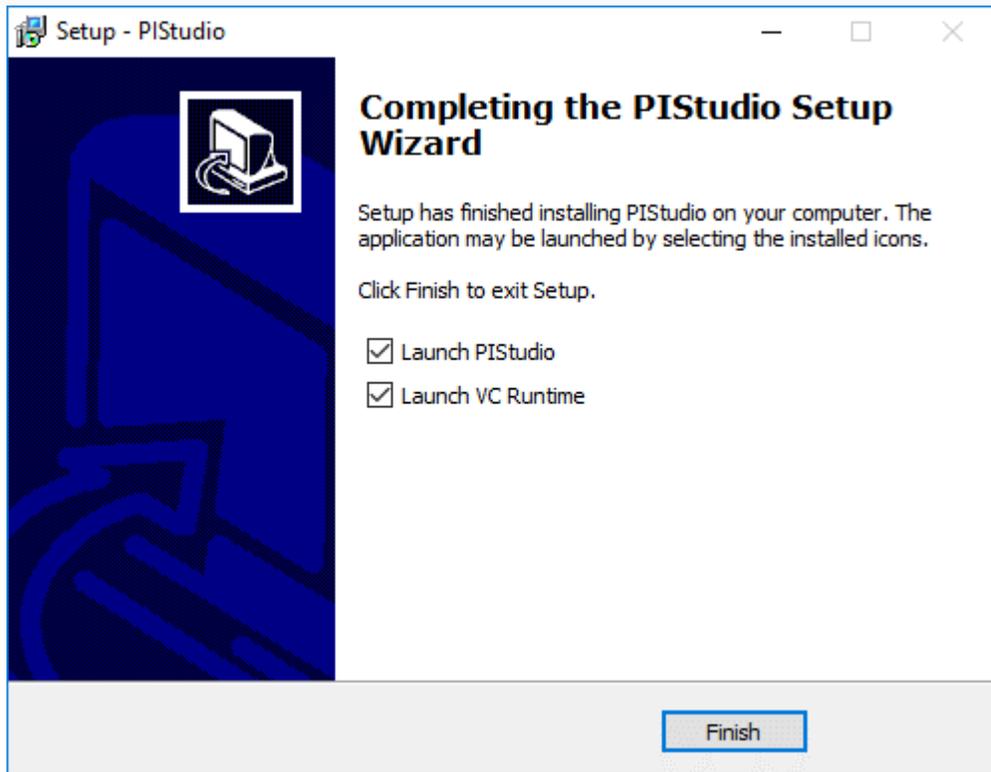
11. At this stage, all settings have been completed. Please check if it is correct. If there is any need to re-select the part, please press "Back". If all is correct, please press "Install" to start the installation process.



12. Installer execution



13. Please check "Launch VC Runtime" to install "Microsoft Visual C++2008" in your PC.



Result: Users could see shortcuts to PISudio's features in the "Start" » "All Programs" » "PISudio" directory.

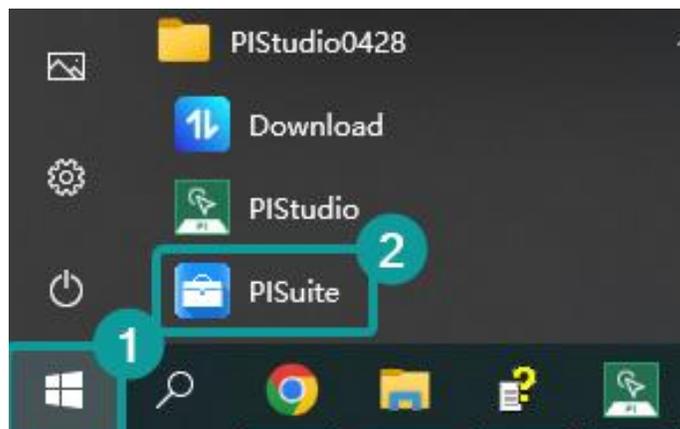
Note:

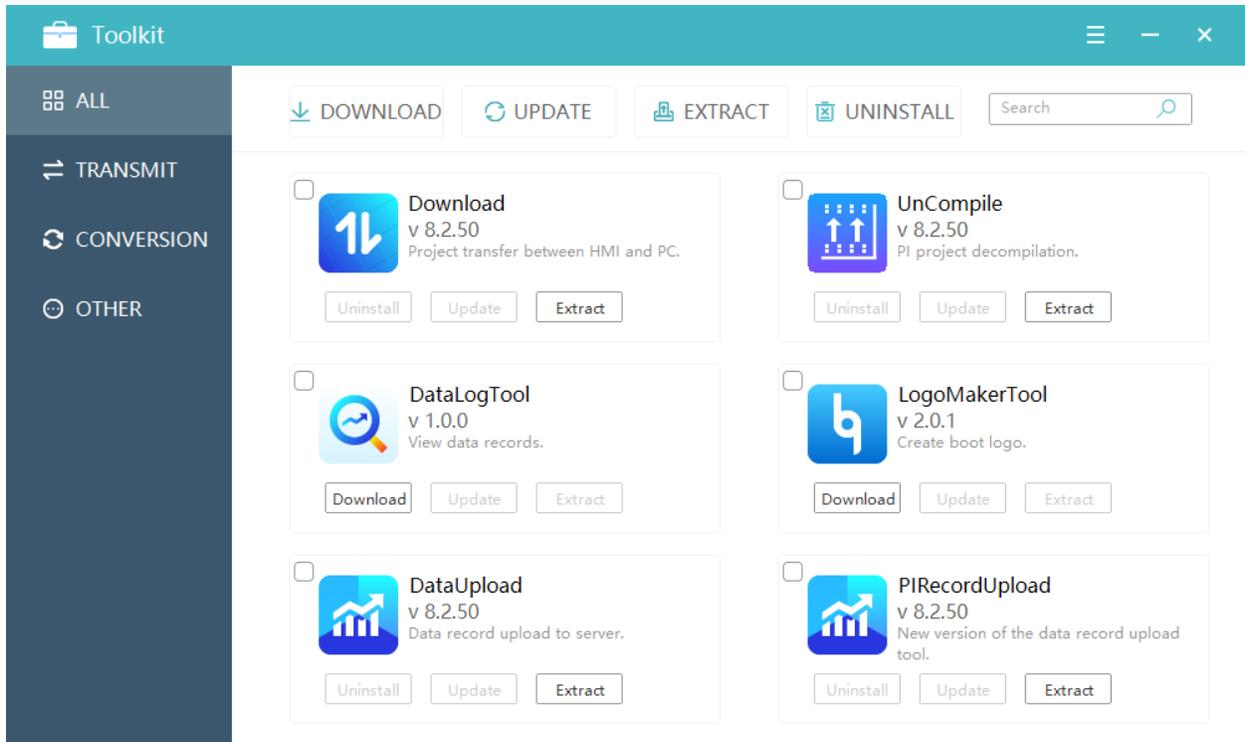
- In case of the incompatible problems, it is suggested to install and run PISudio as administrator.
- Microsoft Visual C++ 2008 provides the necessary runtime components for PISudio

PISuite (Toolkit)

In addition to being editable on PISudio, HMI has other related components that can be used.

Open the "Start" ->"All Programs" ->HMI Editor installation directory to quickly open functional tool.





The tools of toolkit are as follows.

Tool	Icon	Function
Download		Get information about HMI such as upload and download project, update HMI's time, get HMI version, get machine code etc.,.
Decompile		After reading the project from HMI to PC, you need to decompile the project before opening it with PISstudio.
DataLogTool		To view the "DB" such as file data records, alarm records or operation records collected by HMI. You could also convert it to "excel" format.

LogoMakerTool		To make the boot logo of PI series HMI.
DataUpload		Upload data record ,alarm records or operation records collected by HMI.
PIRecordUpload		Monitor devices in real time, update and export data records, alarm records or operation records collected by HMI synchronously. (Only supported by ig Sseries)
CreatInstallmentPwd		The installment payment mode is dynamic password. You can use the Installment password tool "CreatInstallmentPwd" to generate the dynamic password.
PIMonitor		LAN monitoring of 3000 series HMI screen.
Levi2PI		Convert LEVI series engineering to PI series engineering.
HMIPrjStdNeutral		Project conversion between PI standard and PI neutral version
PIRptEditTool		Convert the record files generated by LEVI or PI to the specified format.

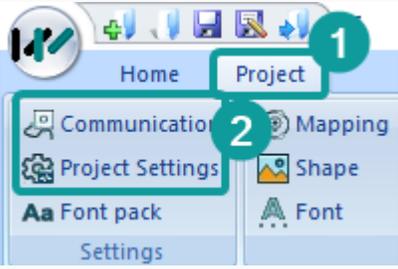
HMIPProjectReportTool		Analyze and generate HMI engineering report.
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Note: HMI supports the use of USB and Ethernet to download/upload project and record files.

Getting Started

This chapter provides a quick and precise introduction of PISstudio.

It does not contain a comprehensive list of all functions, but it only takes 6 simple steps to create a new project.

Operation	Description
<p>1. Create a new project</p>	 <p>Click the "New Project" in the upper left corner of the software to create a new project. You could click "Screen" to create a new screen. See the "Screen Style (only for ig series)" for details.</p>
<p>2. Project Settings</p>	 <p>Click "Communication" and "Project settings" to set communication protocol and port parameter.</p>
<p>3. Project design</p>	<p>Create sreens and place the objects you need. You could draw your own project through "draw", import the required pictures and vector maps using "Shape" library, and enrich the project as much as possible by using the diversified objects .</p>

4. Compile and save	<p>You need to "compile" every project before downloading to it HMI.</p> <p>When uploading a project from the HMI to the PC, you need "Decompile".</p>
5. Simulation	<p>PIStudio provides two simulation modes: offline simulation and online simulation.</p> <ol style="list-style-type: none"> 1. Offline: Simulate the operation of the HMI and PL on the computer. There is no need to connect with PLC. 2. Online: Simulate the operation of the HMI and PL on the computer, but require the PC to be connected to the PLC and set the correct communication parameters. There is a 30-minute time limit for using online simulations.
6. Download project	<p>Download is the last step. After completing the download, the HMI can run the designed project, and the project downloaded to the HMI can also be uploaded to the PC.</p>

Create new project

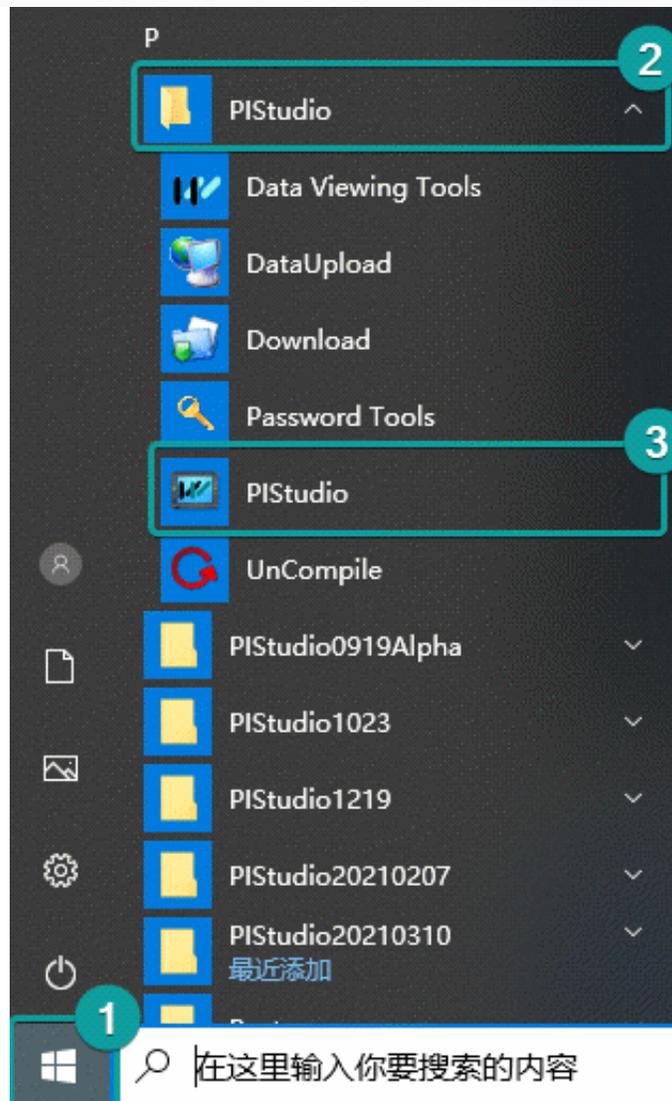
The following steps will show how to start PIStudio and create a project.

Requirement

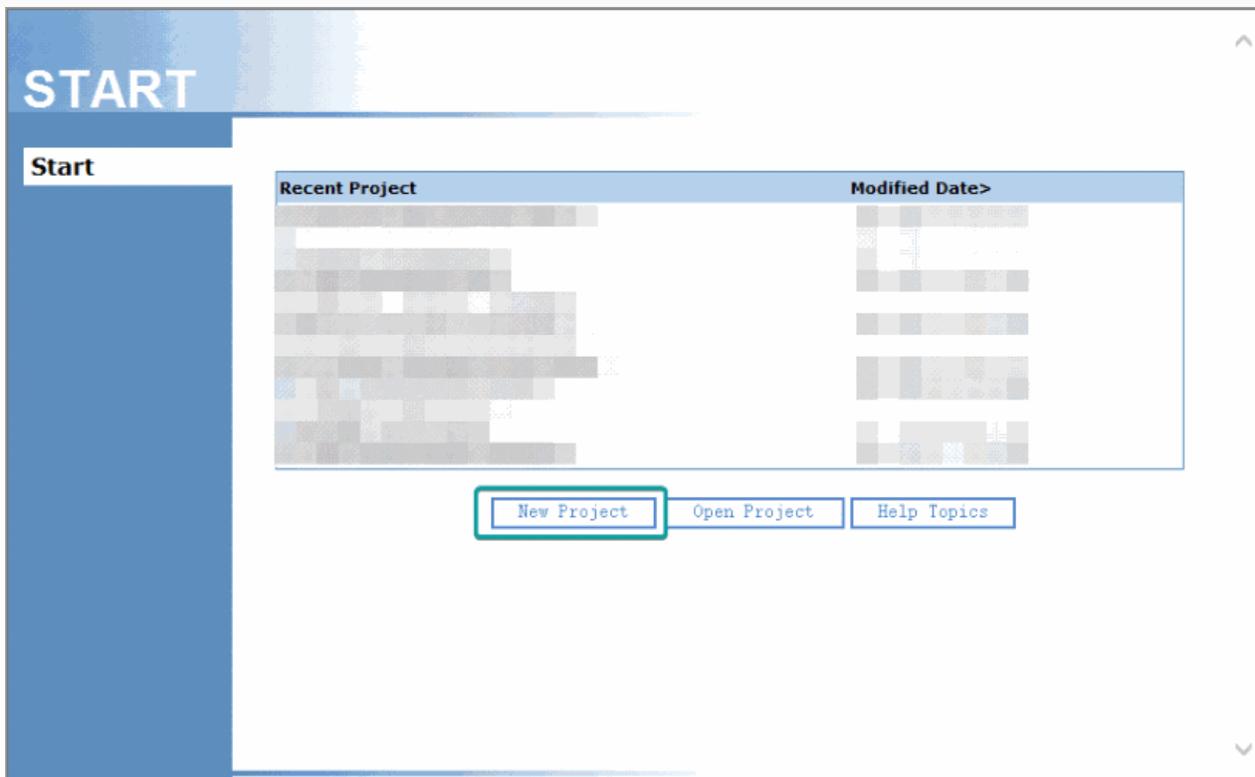
PIStudio programming software is installed.

Operating Procedure

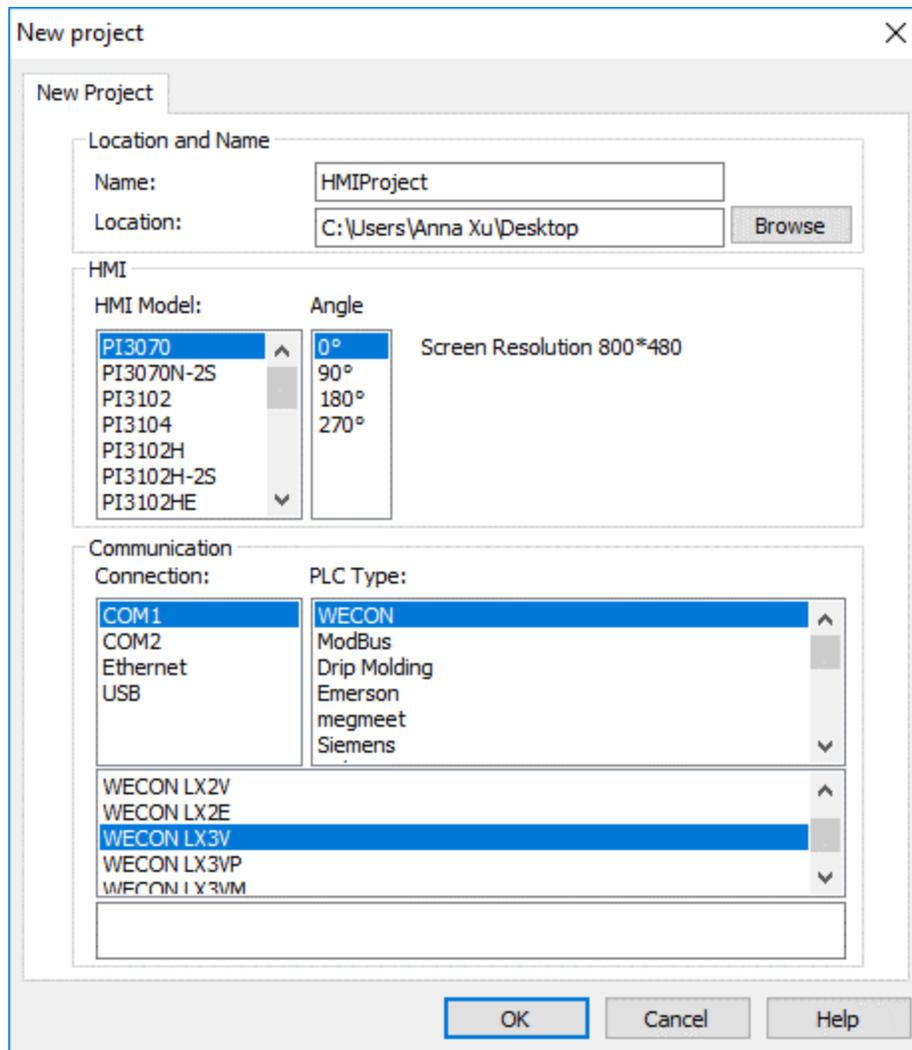
1. Start PIStudio software by click icon, or from Start Menu.
2. Find "PIStudio" folder.
3. Click "PIStudio" icon to start software.



4. Click "New project".



5. Configure project name, project path.
6. Select HMI model and communication protocol.
7. Click "OK" to save setting.



Result

- User could find a folder named HMIPROJECT on the desktop.
- In the folder user could find a file with a suffix named ".pi". Double click the file to open the project.

Add screen

The following steps will show how to create and rename screens in PIStudio.

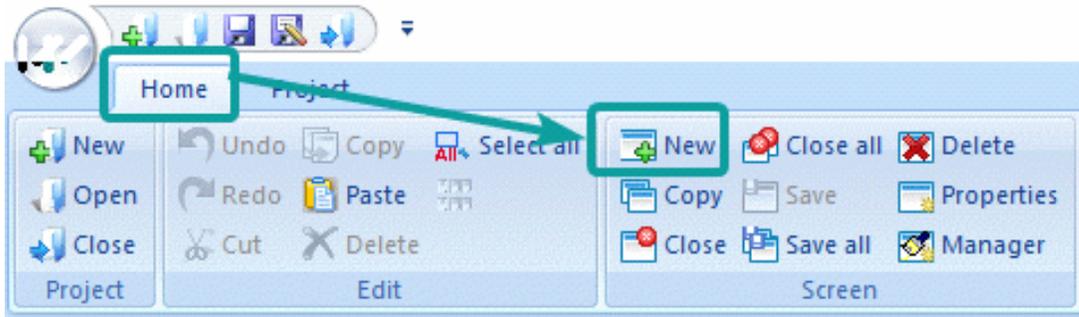
New screens, which are still blank, could be created using the "Common object". User could choose different objects to design screen according to project's requirements.

Requirement

The "Quick_Start" project is open.

Steps:

1. Create a new process screen: Clicking "New" will appear "New screen" setting.



2. Set screen parameter in "New Screen", such as screen number, screen name, background type.

New screen ✕

General

Screen No.: Name:

Background

Color Shape

Background:

Sub-screen

Width: Height:

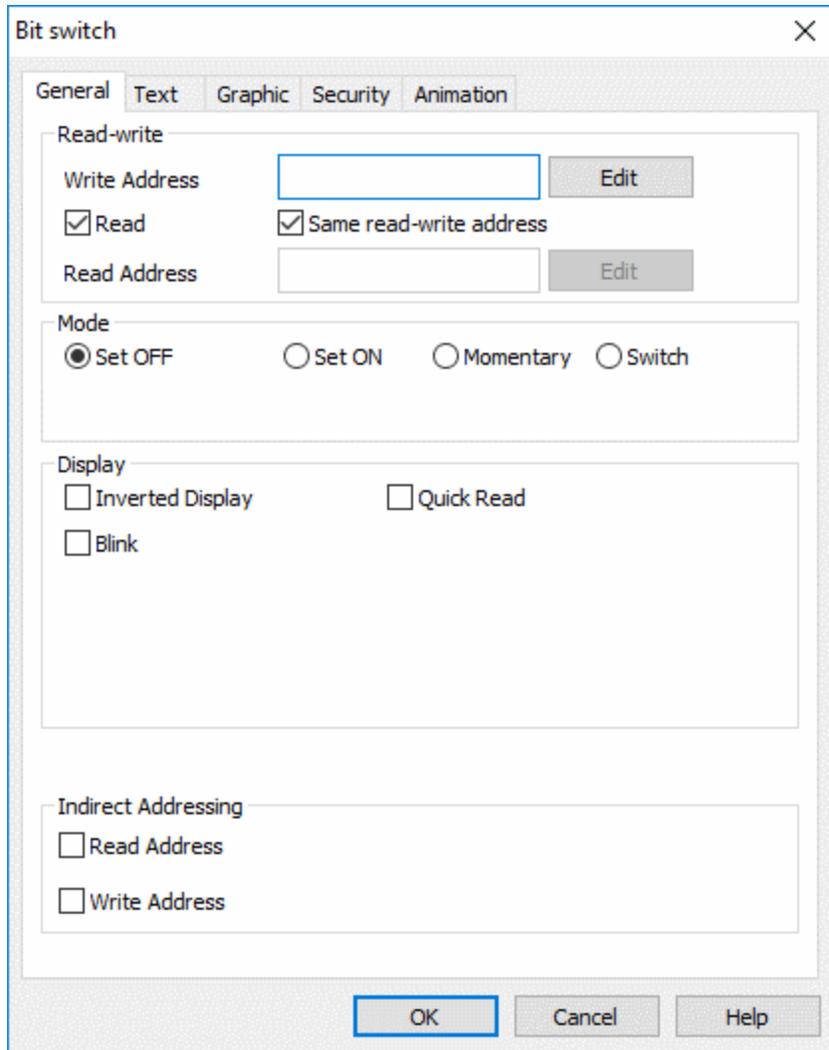
Overlapping screen

Bottom screen:

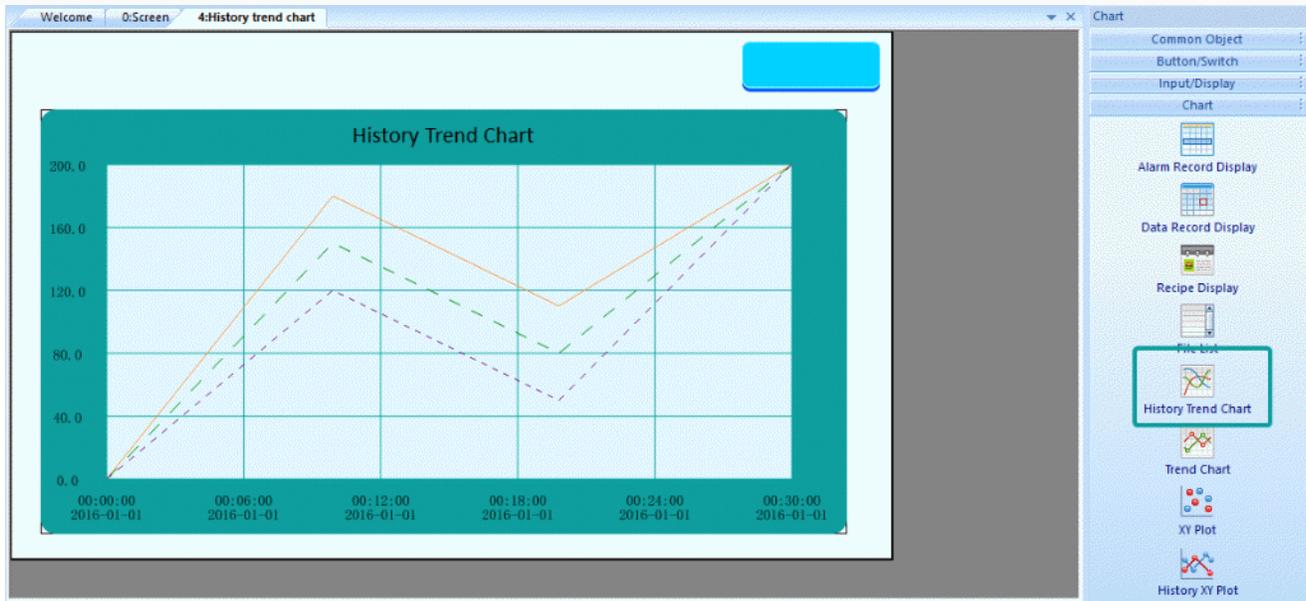
Timing toggle screen

User Permission

3. After making a new screen, user could insert objects in screen. For example, button and trend.
4. Add button object in screen.
5. Set button object parameters, such as read address, mode etc.



6. Add "Trend Chart" from "Chart".



7. And "Function key" for screens switch.

Result

Do a project screen with bit button, one chart display object, and one Function key for switching screen

Project size limits

- 3000 series limits the project file size to 25M
- 3070i series limit the project file size to 25M
- 3070ie series limit the project file size to 22M
- 3070ig series limit the project file size to 25M
- 8000&9000 series limit the project file size to 165M